

Explore the TechTarget Network at SearchTechTarget.com.

Activate your FREE m



The Web's how. This website provides information resources for enterprise IT professionals.

TechTarget Application  
WEB S

ADVERTISEMENT



## Martini shaken or stirred?

[HOME](#) | [NEWS](#) | [TOPICS](#) | [KNOWLEDGE EXCHANGE](#) | [TIPS](#) | [ASK THE EXPERTS](#) | [WEBCASTS](#)

SEARCH this site and the web  [SEARCH](#) [ADVANCED SEARCH](#) | [SITE MAP](#) [Search Results](#)

ADVERTISEMENT

Microsoft

**"Microsoft US Partner Readiness Center - Gain sales, marketing, licensing and technical training to stay ahead of the competition."**

[whatis.com: searchWebServices.com Definitions - Remote Method Invocation](#)
[EMAIL](#)

## searchWebServices.com Definitions - powered by whatis.com

**BROWSE WHATIS.COM DEFINITIONS:** [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#) # [BROWSE ALL CATEGORIES](#)

Search whatis.com for:  [Search](#) - OR - Search this site:  [Search](#)

## Remote Method Invocation

powered by 

The term you selected is being presented by searchWebServices.com, a TechTarget site for Web Services profes

RMI (Remote Method Invocation) is a way that a programmer, using the [Java](#) programming language and development environment, can write [object-oriented programming](#) in which [objects](#) on different computers can interact in a distributed network. RMI is the Java version of what is generally known as a remote procedure call (RPC), but with the ability to pass one or more [objects](#) along with the request. The object can include information that will change the service that is performed in the remote computer. Sun Microsystems, the inventors of Java, calls this "moving behavior." For example, when a user at a remote computer fills out an expense account, the Java program interacting with the user could communicate, using RMI, with a Java program in another computer that always had the latest policy about expense reporting. In reply, that program would send back an object and associated [method](#) information that would enable the remote computer program to screen the user's expense account data in a way that was consistent with the latest policy. The user and the company both would save time by catching mistakes early. Whenever the company policy changed, it would require a change to a program in only one computer.

Sun calls its object parameter-passing mechanism *object serialization*. An RMI request is a request to invoke the method of a remote object. The request has the same [syntax](#) as a request to invoke an object method in the same (local) computer. In general, RMI is designed to preserve the object model and its advantages across a network.

RMI is implemented as three layers:


EXPLORE THIS AREA: RICH-MEDIA AD

**Microsoft**

**"We got to market six months earlier and saw 14 percent savings on development costs."**

*Chief Technology Officer*

Ge



### WHAT'S NEW

on searchWebServices

1. [New! XML Security Learning Guide](#)
2. [.NET Developer Tip - subscribe now](#)
3. [Microsoft U.S. Partner Readiness Center](#)
4. [BPEL Learning Guide](#)

- A stub program in the client side of the client/server relationship, and a corresponding skeleton at the server end. The stub appears to the calling program to be the program being called for a service. (Sun uses the term *proxy* as a synonym for stub.)
- A Remote Reference Layer that can behave differently depending on the parameters passed by the calling program. For example, this layer can determine whether the request is to call a single remote service or multiple remote programs as in a multicast.
- A Transport Connection Layer, which sets up and manages the request.

Free book excerpts [Click here to read sample ch](#)

A single request travels down through the layers on one computer and up through the layers at the other end.

RMI is supplied as part of Sun Microsystem's Java Development Kit (JDK).

>> [Find white papers, products and vendors related to Remote Method Invocation.](#)

#### Read more about it:

- >> [Sun Microsystems has a white paper about RMI.](#)
- >> [Getting Started using RMI from Sun Microsystems provides a brief step-by-step walkthrough.](#)
- >> [The specification for RMI provides more details.](#)
- >> [TechMetrix Research offers a well-illustrated white paper, Intranet Architectures and Performances Report , that compares RMI, IIOP, DCOM, and HTTP from a network bandwidth point-of-view.](#)



#### WEB SERVICES RELATED LINKS

##### Ads by Google

##### One Stop Shop for JSF

JavaServer Faces FAQ, news, articles, products, links & more!  
www.jsfcentral.com

##### Web Services and Java

Learn how it works w/ free reports. Executive brief on how to boost ROI  
www.infravio.com

##### Free Economics Simulation

Profoundly extendable software. You use java to extend it.  
www.econsim.co.uk

##### Learn Java in 5 Days

Hands-On Training & In-Depth Labs Public Schedule & On-Site Courses  
www.traininghott.com

##### Java Programmer

Professional Open Source backed by expert technical support services  
www.JBoss.org

**This word suggested by:** Cesar Flores, Myles Kelman, and Avner Strauss

**Last updated on:** Mar 04, 2003

<< [Back to previous page](#)    [Go to whatis.com home page](#) >>

[HOME](#)

[NEWS](#)

[TOPICS](#)

[ITKNOWLEDGE EXCHANGE](#)

[TIPS](#)

[ASK THE EXPERTS](#)

[WEBCASTS](#)

[About Us](#) | [Contact Us](#) | [For Advertisers](#) | [For Business Partners](#) | [Reprints](#)

SEARCH

**SearchWebServices.com is part of the TechTarget network of industry-specific IT Web sites**

**WINDOWS**

[SearchExchange.com](#)  
[SearchSQLServer.com](#)  
[SearchVB.com](#)  
[SearchWin2000.com](#)  
[SearchWindowsSecurity.com](#)  
[SearchWinSystems.com](#)  
[Labmice.net](#)  
[MyITForum.com](#)

**APPLICATIONS**

[SearchCRM.com](#)  
[SearchSAP.com](#)

**ENTERPRISE IT MANAGEMENT**

[SearchCIO.com](#)  
[SearchDataCenter.com](#)  
[SearchSMB.com](#)

**CORE TECHNOLOGIES**

[SearchDatabase.com](#)  
[SearchEnterpriseVoice.com](#)  
[SearchMobileComputing.com](#)  
[SearchNetworking.com](#)  
[SearchOracle.com](#)  
[SearchSecurity.com](#)  
[SearchStorage.com](#)  
[SearchWebServices.com](#)  
[WhatIs.com](#)

**PLATFORMS**

[Search390.com](#)  
[Search400.com](#)  
[SearchDomino.com](#)  
[SearchEnterpriseLinux.com](#)

[TechTarget Expert Answer Center](#) | [TechTarget Enterprise IT Conferences](#) | [TechTarget Corporate Web Site](#) | [Media Kit](#)

Explore [SearchTechTarget.com](#), the guide to the TechTarget network of industry-specific IT Web sites.

All Rights Reserved, Copyright 2001 - 2005, TechTarget

[Read](#)